STATEMENT OF WORK
For
Dryden Aircraft Operations Facility
Internet Protocol Video Management System Migration Project

6 June 2011

1. General Background: The purpose of this project is to convert the existing Milestone Internet Protocol (IP) Video Management System (VMS) to a Lenel OnGuard integrated IP-VMS which will include transition of video manager software and Network Video Recorders (NVR)s at the Protective Services Control Center-Annex (PSCC-A) at the Dryden Aircraft Operations Facility (DAOF). The new Lenel VMS will utilize DAOF's existing data network infrastructure for transmission of IP-video signal from the cameras to the system. Dryden Flight Research Center (DFRC) Video Team will be directly involved with the migration of a new VMS.

2. Instructions:

2.1 Vendor Requirements and Familiarity

The vendor for this contract has to be Lenel certified VAR and is preferred to have knowledge of the DFRC security system infrastructure and a minimum of 5 years work experience for governmental security projects. The vendor shall submit the Lenel VAR certification letter signed by Lenel, and statement of past performance for any governmental security projects within last 3 years.

2.2 Pricing and Period of Performance

Each line shall be priced for material and labor portion separately. The period of performance (POP) for this project shall not exceed 90 days from the date of contract award.

3. Requirements:

Migrate DAOF existing Milestone VMS and IBM network video recorder (NVRs), integrate control and recording of twenty-five (25) existing DAOF IP cameras into Lenel OnGuard Video Management software, provide Lenel Video Channel Licenses to record up to forty (40) DAOF IP cameras, replace the existing IBM NVR with two (2) government furnished Dell Power Edge R510 high performance servers configured as NVRs, and to replace the three (3) existing client workstations with two (2) government furnished high performance Dell Precision T5500 video client workstations. Vendor shall warranty services for a minimum of one year.

a. Lenel OnGuard Video Manager client licenses shall connect, via DFRC's data network, to an existing Lenel Regional server and Lenel Video Manager server license presently in place at DFRC, Edwards AFB.

b. Install two (2) government furnished Dell Precision T5500 high performance video client workstations and two (2) government furnished Dell Power Edge R510 high performance servers which will be configured as network NVRs to accommodate twenty-five (25) existing IP cameras and fifteen (15) future IP cameras. The video management software will be configured to provide NVR backup functionality. If and when an NVR fails, the software will re-direct cameras from the defective NVR to the other NVR for continuous recording until the defective NVR gets repaired or replaced.

c. Install an Axis network PTZ joystick controller to provide control of PTZ cameras.

d. The client workstations will be attached to the existing flat screen displays.

e. The existing video system shall remain in operation as much time as possible during the migration from the existing video management system to the Lenel video management system. Some down time is inevitable, but every effort will be made to keep it to a minimum.

f. The integrator's installing technicians must be Lenel Master Certified and have at least five years experience configuring, installing, and programming Lenel OnGuard Video Manager software, NVRs, and video systems.

g. Training: Require two (2) 4-hour on-site training sessions. One (1) session will be for Control Desk dispatcher training. One (1) session will be for DFRC system administrator training. The training session will be conducted by Lenel Master Certified System Specialist.

h. Required Parts

No.	Qty	Part Number	Description
1)	2	SWC-DV	Lenel Video Manager Client License
2)	40	SW-LNR-CH1	Lenel Camera Channel License
3)	1	5020-101	T8310 Axis Network PTZ Joystick Controller

i. The budgetary proposal will have the following each component line items:
- Parts (individual part price)
- Labor (how many tech and how many hours, travel/per diem cost)
- Freight

4. Additional Information:

Existing Video System

Video from twenty-five (25) existing IP cameras is presently being recorded on one network video recorder (NVR) at the DAOF PSCC-Annex. Video display is being generated by three (3) video client workstations on four (4) large screen displays.

System Commissioning

Balancing the NVRs

The vendor will work with DFRC to address these parameters on a camera by camera basis, and will distribute the cameras across the NVRs to balance the video processing demands as evenly as possible.

Note: Plan to have two NVRs so the load on each will be less, and so if one hard drive fails, the cameras from that hard drive may be redistributed to the remaining hard drive for recording until the defective hard drive is repaired or replaced. Program the cameras and NVRs into the Lenel OnGuard Video Manager software.

IP Video System Operation

Viewing Live Video Between DFRC PSSC and DAOF PSSC-ANNEX

DAOF PSSC-Annex Security staff will be able to continue viewing live video and control the PTZ cameras in the same fashion and on the same equipment in which it currently views live video and controls the PTZ cameras.

Viewing Recorded and Live Video on Lenel Client Workstations

Authorized DFRC management will manage the system and view live and recorded video on client workstations once the vendor loads Lenel video client licenses.

Note: Live video will be viewed at the workstations at the frame rate (fps) at which each camera is being recorded. When Lenel OnGuard VMS is fully integrated with Lenel access control/alarm monitoring software, live video may be automatically launched on Lenel video client workstations on a variety of programmable card reader or alarm events. When the integration is complete, the vendor will work with DFRC to learn the types of events management wishes to be linked to and launch live video, and will program these events into the Lenel video management and access control software accordingly.

System Operating Parameters

The DAOF PSCC-Annex IP CCTV system will be programmed to record as follows:

Resolution: System resolution should be able to meet new mega pixel cameras at 1920 x 1080.
Note: Provide images measuring .5 megapixel, 1 megapixel, 2 megapixels, and 5 megapixels in size, depending on each camera's location and application.

Recording Frame Rate

Minimum 6 fps. The vendor will program each camera's frame rate based on location, application, and optimizing system capacity.